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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/785,577	02/16/2001	Apurva Kumar	JP920000365US1	JP920000365US1 4250		
7590 05/19/2005			EXAM	EXAMINER		
MCGINN & GIBB, PLLC			сно, но	CHO, HONG SOL		
2568-A RIVA SUITE 304	ROAD	ART UNIT	PAPER NUMBER			
ANNAPOLIS,	MD 21401	2662				
			DATE MAILED: 05/19/200	DATE MAILED: 05/19/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)				
Office Action Summary		09/785,577		KUMAR ET AL.				
		Examiner		Art Unit				
		Hong Cho		2662				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE I - Exter after - If the - If NO - Failu Anys	ORTENED STATUTORY PERIOD FOR REP MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reperiod for reply is specified above, the maximum statutory perior to reply within the set or extended period for reply will, by statutely received by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event eply within the statuto d will apply and will e ute, cause the applica	, however, may a reply be time ry minimum of thirty (30) days expire SIX (6) MONTHS from t ation to become ABANDONED	ely filed will be considered timeline mailing date of this color (35 U.S.C. § 133).				
Status					,			
1)⊠	Responsive to communication(s) filed on <u>03</u>	January 2005.			••			
2a) <u></u> □	This action is FINAL . 2b)⊠ Th	nis action is nor	n-final.					
3) 🗌	Since this application is in condition for allow		· ·		e ments is			
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.								
Dispositi	ion of Claims							
•	4)⊠ Claim(s) <u>1-21</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
5) 🗌	5) Claim(s) is/are allowed. 6) Claim(s) <u>1-21</u> is/are rejected. 7) Claim(s) is/are objected to.							
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=								
8)	Claim(s) are subject to restriction and	or election red	luirement.					
Applicati	on Papers				-			
9)☐ The specification is objected to by the Examiner.								
10)	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority u	ınder 35 U.S.C. § 119		•					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
-7.	1. Certified copies of the priority documents have been received.							
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
	application from the International Bure	· ·	7 77					
* 5	See the attached detailed Office action for a li	st of the certific	ed copies not receive	d.	-			
Attachmen	t(s)				•			
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)								
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0	.o.\	Paper No(s)/Mail Da Notice of Informal Pa	te	0-152)			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date <u>03162005</u> .	~,	6) Other:	Acont Application (PTC	J 102)			

DETAILED ACTION

Response to Amendment

1. This office action is in response to the amendment filed on 1/3/05. Claims 1-21 are pending in the instant application.

Claim Rejections - 35 USC § 102

- 2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102(e) that form the basis for the rejections under this section made in this Office action:
 - (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1-5, 8-12 and 15-19 are rejected under 35 U.S.C. 102(e) as being anticipated over Salonidis et al, hereinafter referred to as Salonidis.

Re claims 1, 3-5, 8, 10-12, 15 and 17-19, Salonidis discloses the inquired device at inquiry scan state periodically listening for inquiry message to scan from the inquiring device at inquiry state (paragraph [0019], lines 1-6) and upon reception of the inquiry message, the inquired unit goes to the standby state or sleep mode from inquiry scan state for a predetermined time (periodically interrupting device discovery activity for a predetermined time period to scan for an inquiry message, paragraph [0020], lines 4-8).

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Salonidis discloses controlling the period of time a unit remains in the sleep mode that will determine when the inquired device to continue its activity again or return to inquiry state to discover the neighbor devices on expiry of predetermined time period, which may be chosen to be a random distribution (paragraph [0045], lines 7-12) for optimizing the device connection establishment time (returning to device discovery activity on receipt of an inquiry message and upon the end of random time period and processing the inquiry message for a random time period, paragraph [0046], lines 3-9). Salonidis further discloses processing inquiry message in accordance with normal procedures in frequency hopping based ad hoc networks (paragraph [0022], lines 1-4). Salonidis discloses a connection establishment procedure between Bluetooth-enabled devices using a frequency hopping set called an inquiry hopping sequence (frequency hopping based adhoc network is implemented under the Bluetooth defacto standard, paragraph [0017], lines 1-5).

Re claims 2, 9 and 16, Salonidis discloses modifying predefined time period of inquiry scan for listening inquiries from other devices (pre-determined time period for scanning is reduced by the reception of inquiry messages from other devices, paragraph [0045], lines 1-10).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made

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to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 6, 7, 13, 14, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Salonidis.

Re claims 6, 7, 13, 14, 20 and 21, Salonidis discloses all of claim limitations of base claims, but fails to disclose periodic interruption of device discovery to occur at least once every 2.56 seconds and random time period to continue interrupted activity again to be less than or equal to 1.28 seconds. However, those time intervals for periodic interruption of device discovery and time period to continue interrupted activity again can be easily set by modifying parameters associated with predefined probability distribution. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify parameters of predefined probability distribution of Salonidis so that periodic interruption of device discovery would occur at least once every 2.56 seconds and random time period to continue interrupted activity again would be less than or equal to 1.28 seconds. The motivation is to have compatible system with Bluetooth standard that uses 32 dedicated hopping frequencies within the Bluetooth radio band wherein the respective frequency is repeated for 2.56 seconds and the phase within the sequence of hopping frequencies changes every 1.28 seconds.

Response to Arguments

6. Applicant's arguments filed on 1/3/05 have been fully considered but they are not persuasive.

On page 9, applicant argues that Salonidis does not disclose returning to a device discovery activity for a random time period on receipt of an inquiry message from another device before processing an inquiry message. The Examiner respectfully disagrees. Salonidis discloses returning to continue the activity for a predetermined time period, which may be chosen to be a random distribution (paragraph [0045], lines 7-12) for optimizing the device connection establishment time, on receipt of an inquiry message from another device.

Therefore, the Examiner concludes that Salonidis still reads on the amended claims and the rejection of claims 1-21 stand rejected.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hong Cho whose telephone number is 571-272-3087.

The examiner can normally be reached on Mon-Fri during 7 am to 4 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on 571-272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-3088.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you

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have questions on access to the Private PAIR system, contact the Electronic Business-

Center (EBC) at 866-217-9197 (toll-free).

Hong Cho
Patent Examiner
4/19/2005

hassán kizo

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600